

Caution: Before power-up, confirm the input voltage selector switch is in the proper position. If you have it set for 115V input and connect to 230V, it will damage the unit. If you have it set to 230V and connect to 115V, the unit will not operate properly.

- 1) Connect the AC input cord, current sensor, cell voltage harness and printer (or PC) cable in accordance with the TD-647 Rev. F operator's manual.
- 2) Turn the Printer ON, verify all connections, and that it is on-line. If using the ABTECH Battery Management System, start the PC and ABMS application.
- 3) Connect the cell voltage harness to the battery being serviced. Connections are from - to + following the battery inter-cell circuit.
- 4) Connect the charger/analyzer to the battery.
- 5) Perform the current sensor offset adjustment as follows. This MUST be done the first time the DataFX is powered-up each day, and after turning it off and back on, otherwise current metering may not be accurate.
 - a. Turn ON the charger analyzer, set to zero amps, and allow it to warm-up.
 - b. Turn ON the DataFX and allow it to warm-up for five (or more) minutes.
 - c. Verify the Station Number and battery Cell Count.
 - d. Turn the DataFX OFF for 15-30 seconds.
 - e. Verify that zero (0.00) amps of current is flowing to or from the battery.
 - f. Turn ON the DataFX.
 - g. When the opening display appears, press the CLEAR button and hold for five seconds minimum.
 - h. Verify the adjustment by pressing the PRINT button. The amp value should read 00:0 A. If it has a non zero value (e.g. 00.2 A), repeat the above steps until the printed amp value is 00:0A.
- 6) Verify that the correct station number and the proper number of cells are displayed in the opening message. If the wrong number of cells is displayed, check the cell count, cell probe numbering, and connections. Press RESET. Note: Each cell MUST be above 1.00 volts for the DataFX to properly detect and indicate the correct number of cells. Perform a 5-minute pre-charge if the battery is fully discharged so all cells are above 1.00 volts.
- 7) Start the charger-analyzer. The DataFX begins monitoring when a current of about 1 to 2 amperes is detected.
- 8) The DataFX will automatically monitor the battery for error conditions during a Task and print the End-Of-Task report when the Task has ended. If an error condition is detected, the red LED, alarm, and the display will show the error message and cells affected. At any time during the task, press the PRINT button for a cell voltage printout or set the current to zero amps for a full End-Of-Task report.
- 9) The DataFX monitors four error conditions:
 - CR - cell reversed
 - CB - cell balance
 - NS - negative slope
 - LV - low cell voltsWhen an error condition occurs, the cell voltage for that cell will flash on the display, the warning LED will come on, and the alarm may sound to alert the technician of the error. Each error is reported once per cell per task. Press the CLEAR button to clear an error. Clearing the error shuts off flashing cell volts, the alarm, and warning LED. The error will be recorded by the DataFX and appear on the printout. If a different error occurs later, it will be displayed and the alarm will activate again.
- 10) The DataFX will print an End-Of-Task report when the current goes to zero or passes through zero (as in an Analyze function on the RF80-K).